

FOR REFERENCE ONLY

INDIANA COLLECTION
FLOODS +
FLOOD
CONTROL



FLOODS

on DEEP RIVER,
TURKEY CREEK
and DUCK CREEK
LAKE COUNTY, IND.



March, 1973

FLOODS

on DEEP RIVER, TURKEY CREEK and DUCK CREEK LAKE COUNTY, IND.

This folder is an announcement of and supplement to the "Flood Plain Information (FPI) Report, Deep River, Turkey Creek, and Duck Creek, Lake County, Indiana". The purpose of the report is to present the facts on flood potential and flood hazards on these three streams, which will provide a sound basis for land use planning and for management decisions concerning flood plain utilization.

Although the City of Hobart, and other communities along these creeks have suffered extensive damage from major floods in the past, studies indicate that even larger floods can occur in the future. Emphasis is given to future floods in the FPI Report. Maps, profiles, and cross-sections have been included to illustrate the possible extent and severity of future floods.

Included in this folder is a photograph showing possible future flood heights near the Hobart Sewage Treatment Plant. The flood height shown for a large flood, the Intermediate Regional Flood (IRF), has a chance of being equalled or exceeded once in 100 years on the average although it could occur in any year. Also indicated is the flood height that would be reached if a very large flood, the Standard Project Flood (SPF), should occur.

EXPERIENCED AND POSSIBLE FUTURE FLOOD HEIGHTS

Elevation (Mean Sea Level Datum) Feet

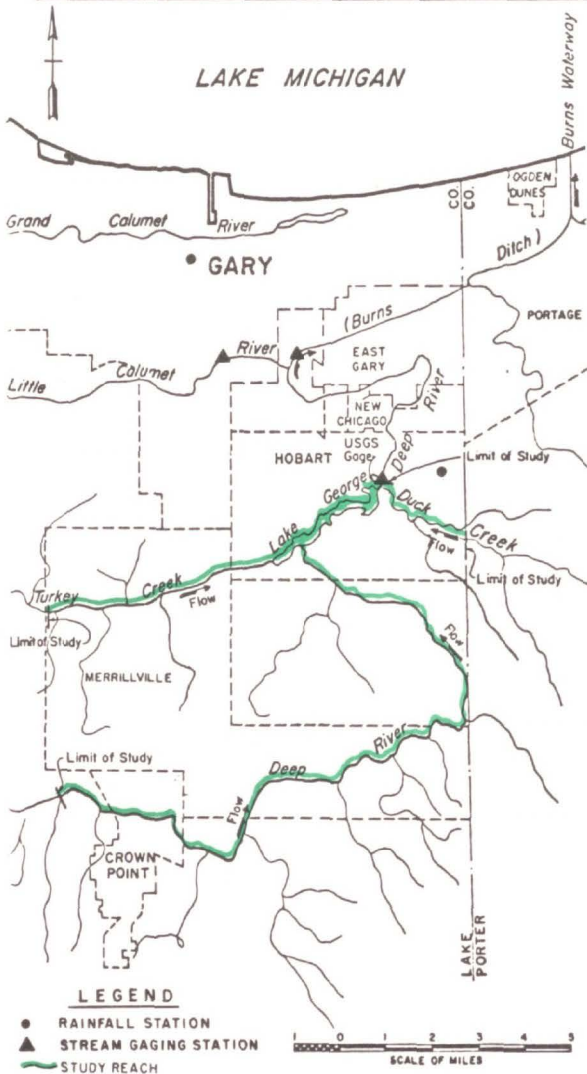
Location

Flood of May 15, 1970

Large Flood (100 Year) IRF

Very Large Flood SPF

Ridge Rd. Bridge, Deep River	603.6	610.6	621.0
U.S. Rt. 30 Deep River	640.2	641.7	650.8
Indiana Rt. 53, Turkey Creek	613.8	619.1	626.2



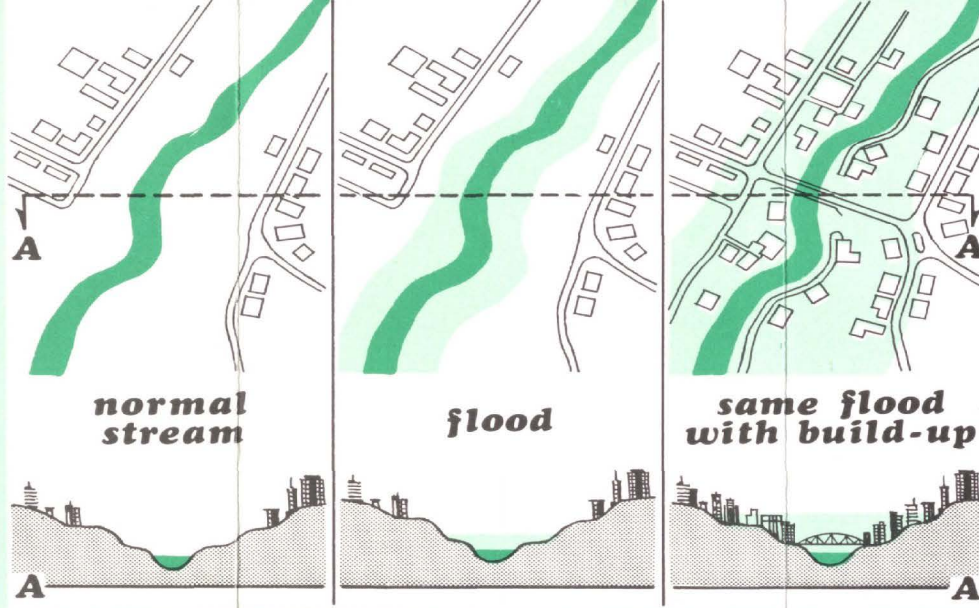
Inside are sketches illustrating the horizontal and vertical relationships of flooded areas and a flood area map from the report showing the extent of both an Intermediate Regional Flood and a Standard Project Flood.



Future flood height at the Hobart Sewage Treatment Plant near Duck Creek and Deep River, Standard Project Flood would be 7.1 feet above the top of the rod.

← Study area location map.

BUILDING
in the
FLOOD PLAIN
can make
FLOODS
WIDER
and
DEEPER



this
ENCROACHMENT
can change
a
Small Flood
into a
MAJOR FLOOD

TOOLS of FLOOD PLAIN MANAGEMENT for the reduction of Flood Damage and Human Suffering



MEASURES TO REDUCE VULNERABILITY TO FLOODS provide for a future with more freedom from flood damage, often at minor cost and with little adverse effect on the environment

REGULATIONS

- ZONING, BUILDING CODES, SUBDIVISION
- FLOOD PROOFING • RELOCATIONS •
- URBAN RENEWAL •

MEASURES TO MODIFY FLOODS

are often required to alleviate existing problems and sometimes to forestall future problems . . .



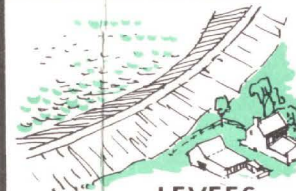
DAMS & RESERVOIRS



CHANNEL ENLARGEMENT



HIGH FLOW DIVERSION



LEVEES

OTHER MEASURES

aid the Flood Plain occupant in coping with floods . . .

EDUCATION

TAX ADJUSTMENTS

FLOOD INSURANCE

WARNING & EMERGENCY PLANS



FLOOD PATTERNS

FOR
LAKE COUNTY, INDIANA

LEGEND

approximate limits of overflow

- NORMAL STREAM
- INTERMEDIATE REGIONAL FLOOD (IRF)
- STANDARD PROJECT FLOOD (SPF)

PROFILES in the Flood Plain Information Report show elevations of these floods for the entire study area

ACTION IS NEEDED

The flood plains of Deep River, Turkey Creek and Duck Creek are only urbanized to a small extent at the present time. With new growth and continuous expansion of industry and cities in Lake County, these flood plains are coming under heavy pressure for development. The devastating effects of flooding will continue to increase unless action is taken.

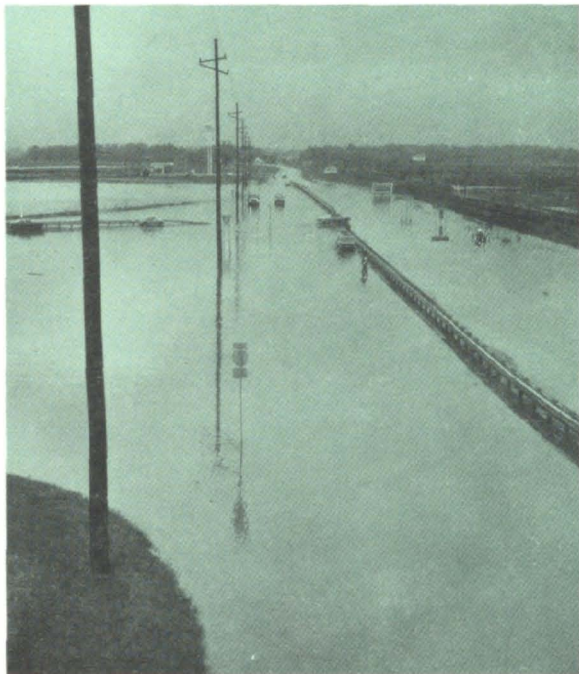
Effective regulatory measures such as zoning ordinances and building codes can be designed to prevent increased flood damages. Flood proofing can reduce potential damages to properties already subject to flooding, and additional works to modify flooding can also be a part of the long-run solution.

The Deep River, Turkey Creek and Duck Creek flood plains are not the only areas with flooding problems. Flood plain information has already been provided for many of several thousand flood-plagued communities. Nearly 400 of those having FPI Reports by mid-1971 have adopted or strengthened regulations, while 700 others have them under study. An additional 600 communities have used the FPI Reports to establish interim land use control.

This folder has been prepared for the Lake-Porter County Regional Transportation and Planning Commission by the U.S. Army Corps of Engineers from data in the Report "Flood Plain Information, Deep River, Turkey Creek, and Duck Creek, Lake County, Indiana". Copies of the report and this folder are available upon request from the Lake-Porter County Regional Transportation and Planning Commission and the Little Calumet River Basin Commission at 8149 Kennedy Avenue, Highland, Indiana 46322.



Route 231 near Crown Point is dry most of the time.



The same section of road is flooded due to back-up of a tributary of Deep River.